

Title (en)

BALLOON CATHETERS AND SYSTEM AND METHODS FOR DELIVERING STENTS USING SUCH CATHETERS

Title (de)

BALLONKATHETER UND SYSTEM UND VERFAHREN ZUR EINFÜHRUNG VON STENTS MITHILFE SOLCHER KATHETER

Title (fr)

CATHÉTERS À BALLONNET, SYSTÈME ET MÉTHODES D'INTRODUCTION D'ENDOPROTHÈSES UTILISANT CES CATHÉTERS

Publication

EP 3082661 A4 20170726 (EN)

Application

EP 14870993 A 20141217

Priority

- US 201314133542 A 20131218
- US 2014070990 W 20141217

Abstract (en)

[origin: WO2015095416A1] Apparatus and methods are provided for treating lesions within a blood vessel include a two-layer angioplasty balloon designed for the simultaneous deployment of multiple balloon-expanded stents. The high-compliance (elastic) outer balloon secures stent position. The low-compliance (inelastic) inner balloon drives angioplasty and stent expansion. Stent deployment starts with the injection of a small quantity of fluid into the outer balloon, which bulges slightly at both ends and into the spaces between the stents and, once the stent has expanded a little, between the struts of the stents. The injection port to the outer balloon is then closed, and fluid is injected only into the inner balloon, which expands, opening the stents.

IPC 8 full level

A61F 2/958 (2013.01); **A61F 2/82** (2013.01); **A61M 25/10** (2013.01)

CPC (source: EP US)

A61F 2/82 (2013.01 - US); **A61F 2/958** (2013.01 - EP US); **A61F 2002/826** (2013.01 - EP US); **A61F 2002/9583** (2013.01 - EP US)

Citation (search report)

- [XYI] US 6187014 B1 20010213 - GOODIN RICHARD L [US], et al
- [Y] WO 2007053967 A1 20070518 - SCHWAGER MEDICA [CH], et al
- [Y] EP 2082776 A1 20090729 - BIOTRONIK VI PATENT AG [CH]
- [Y] US 5913871 A 19990622 - WERNETH RANDELL L [US], et al
- See references of WO 2015095416A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

WO 2015095416 A1 20150625; AU 2014364599 A1 20160714; AU 2014364599 B2 20200312; CA 2934664 A1 20150625; CA 2934664 C 20230926; EP 3082661 A1 20161026; EP 3082661 A4 20170726; EP 3082661 B1 20190213; JP 2017500134 A 20170105; JP 6625984 B2 20191225; US 10251766 B2 20190409; US 2015216691 A1 20150806; US 2017071770 A1 20170316; US 9486347 B2 20161108

DOCDB simple family (application)

US 2014070990 W 20141217; AU 2014364599 A 20141217; CA 2934664 A 20141217; EP 14870993 A 20141217; JP 2016541552 A 20141217; US 201314133542 A 20131218; US 201615341987 A 20161102